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After entry of the amendments made herein, the claims under consideration in this application will read as follows.

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1. (Twice amended) An isolated DNA comprising:

- (a) a nucleic acid sequence that encodes a polypeptide with the ability to co-stimulate a T cell, wherein the polypeptide is an amino acid sequence consisting of SEQ ID NO:1 or SEQ ID NO:3; or
 - (b) the complement of the nucleic acid sequence.
- 4. The DNA of claim 1, wherein the nucleic acid sequence is a nucleotide sequence consisting of SEQ ID NO:2.
- 5. The DNA of claim 1, wherein the nucleic acid sequence is a nucleotide sequence consisting of SEQ ID NO:4.
 - 11. A vector comprising the DNA of claim 1.
- 12. The vector of claim 11, wherein the nucleic acid sequence is operably linked to a regulatory element which allows expression of said nucleic acid sequence in a cell.
 - 13. A cell comprising the vector of claim 11.
 - 36. A cell comprising the vector of claim 12.
- 37. A method of producing a polypeptide that co-stimulates a T cell, the method comprising culturing the cell of claim 36 and purifying the polypeptide from the culture.
 - 45. (Amended) An isolated DNA comprising:
- (a) a nucleic acid sequence that encodes a polypeptide with the ability to co-stimulate a T cell, wherein the nucleic acid sequence is at least 50 nucleotides long and wherein the

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polypeptide consists of a functional fragment of an amino acid sequence consisting of SEQ ID NO:1 or SEQ ID NO:3; or

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(b) the complement of the nucleic acid sequence.

- 46. The DNA of claim 45, wherein the functional fragment consists of (i) SEQ ID NO: 1 but lacking amino acid residues 1-22 of SEQ ID NO:1 or (ii) SEQ ID NO:3 but lacking amino acid residues 1-22 of SEQ ID NO:3.
 - 47. A vector comprising the DNA of claim 45.
- 48. The vector of claim 47, wherein the nucleic acid sequence is operably linked to a regulatory element which allows expression of said nucleic acid sequence in a cell.
 - 49. A cell comprising the vector of claim 47.
 - 50. A cell comprising the vector of claim 48.
- 51. A method of producing a polypeptide that co-stimulates a T cell, the method comprising culturing the cell of claim 50 and purifying the polypeptide from the culture.
- 52. (Newly added) The DNA of claim 45, wherein the nucleic acid sequence is a segment of a nucleotide sequence consisting of SEQ ID NO:2 or SEQ ID NO:4.